Title (en)

An alarm system and a method for detecting intrusion in a structure by means of acoustic emission

Title (de)

Alarmsystem und Verfahren zum Erkennen eines Eindringens in eine Struktur mittels akustischer Ausgabe

Title (fr)

Système d'alarme et procédé de détection d'intrusion dans une structure au moyen d'une émission acoustique

Publication

EP 2605223 B1 20140730 (EN)

Application

EP 11193091 A 20111212

Priority

EP 11193091 A 20111212

Abstract (en)

[origin: EP2605223A1] An alarm system for detecting intrusion in a structure by means of acoustic emission, comprising an acoustic emission sensor (22) to be mounted on said structure so as to detect acoustic emission signals propagated through it, a processor (12, 14) for analysing the detected signal and determining if the detected signal exceeds a parameter threshold value, and an alarm unit (12) for providing an alarm signal if the detected signal exceeds the parameter threshold value. The alarm system further comprises an actuator for generating an acoustic emission test signal through the structure, which test signal is to be detected by the acoustic emission sensor (22). The processor (12, 14) is adapted to analyse the detected test signal to determine material properties of the structure, and select the parameter threshold value according to the determined material properties of the structure. The invention also relates to a method for detecting intrusion in a structure by means of acoustic emission.

IPC 8 full level

G08B 13/02 (2006.01); **G08B 13/16** (2006.01)

CPC (source: EP)

G08B 13/02 (2013.01); **G08B 13/1654** (2013.01)

Cited by

US9349269B2; WO2015090714A1; WO2015101977A1

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)

EP 2605223 A1 20130619; **EP 2605223 B1 20140730**; ES 2502441 T3 20141003

DOCDB simple family (application)

EP 11193091 A 20111212; ES 11193091 T 20111212